

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference 290.0053 020 | | FOR FURTHER ACTION | see Notifica (Form PCT below. | ation of Transmittal of International Search Report VISA/220) as well as, where applicable, item 5 | | | |
|---|--|--|-------------------------------------|---|--|--|--|
| International application No. PCT/US03/24096 | | International filing date (day/mon 01 August 2003 (01.08.2003) | th/year) | (Earliest) Priority Date (day/month/year) 01 August 2002 (01.08.2002) | | | |
| Applicant PURDUE RESEARCH FOUNDATION | | | | | | | |
| This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. | | | | | | | |
| ir U | the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. | | | | | | |
| 2. C 3. U 4. With rega | Certain claims were found Inity of invention is lacking and to the title, the text is approved as sub- | | ws: | | | | |
| | ard to the abstract, the text is approved as sub- the text has been established that, within one month from the text has been the month from the text has been established the text has been established. | d, according to Rule 38.2(b), by the | iis Authori ational sea | ty as it appears in Box III. The applicant rch report, submit comments to this | | | |
| a b | s suggested by the applica ecause the applicant failed | | No | None of the figures | | | |

Form PCT/ISA/210 (first sheet) (July 1998)



Interna application No.
PCT/US03/24096

| A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C07H 19/04, 21/00; C12N 1/00; C12P 19/34, 33/00; C12Q 1/68; G01N 33/566; US CL : 435/6,52, 91.53, 810; 436/501; 536/23.1, 24.3, 25.3, 26.6, 124 According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | |
|---|--|--|---|--|--|--|
| B. FIELDS SEARCHED | | | | | | |
| Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/6,52, 91.53, 810; 436/501; 536/23.1, 24.3, 25.3, 26.6, 124 | | | | | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | | | | | |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet | | | | | | |
| C. DOC | UMENTS CONSIDERED TO BE RELEVANT | | | | | |
| Category * | Citation of document, with indication, where ap | propriate, of the relevant passages | Relevant to claim No. | | | |
| Y | US 5,225,556 A (BARTON) 06 July 1993 (06.07.1 | 1993), Abstract, Column 17, Line 64 | 1-42 | | | |
| Y | to Column 20, Line 68. MOHAMMAD, T. et al. Photosensitized Inactivation of Infectious DNA by Urocanic Acid, Indoleacrylic Acid and Rhodium Complexes. Photochemistry and Photobiology. 1994, Volume 59, No. 2, pages 189-196, especially Abstract. | | | | | |
| Y | MOHAMMAD, T. et al. Photoinduced Crosslinkin cis-Rh(Phen)(phi)Cl2+: A New Family of Light Adagents. Bioorganic and Medicinal Chemistry Letter especially entire Page 1703, and Page 1707, Lines of the control of the co | 1-18, 20, 22-29,32-33 and 41-42 | | | | |
| Υ | MOHAMMAD, T. et al. Simultaneous Photoconjug Rh(Phen)2Cl2+ to DNA via a Synergistic Effect. If 2000. Volume 71, No. 4, pages 369-381, especially 37 to Column 2, Line 35 and Page 379, Column 1, | Photochemistry and Photobiology. Page 369, Abstract, Column 1, Line | 1-42 | | | |
| Further | documents are listed in the continuation of Box C. | See patent family annex. | | | | |
| | pecial categories of cited documents: | "T" later document published after the inte | mational filing date or priority | | | |
| "A" document defining the general state of the art which is not considered to be principle or theory underly | | | eation but cited to understand the ention | | | |
| of particular relevance "E" earlier application or patent published on or after the international filing date | | "X" document of particular relevance; the considered novel or cannot be considered. | claimed invention cannot be red to involve an inventive step | | | |
| *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | | when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination | | | | |
| "O" document referring to an oral disclosure, use, exhibition or other means | | being obvious to a person skilled in th | | | | |
| | published prior to the international filing date but later than the late claimed | "&" document member of the same patent | family | | | |
| Date of the actual completion of the international search Date of mailing of the international search Date of mailing of the international search | | | | | | |
| 08 July 2004 (08.07.2004) 0 3 AUG 2004 | | | | | | |
| Name and mailing address of the ISA/US Mail Stop PCT, Atn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Authofized officer Dr. Kallash C. Srivastava Telephone No. (571)-272-0700 | | | | | | |

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| INTERNATION EARCH REPORT | 101/0303/24070 | | | | |
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| Continuation of B. FIELDS SEARCHED Item 3: USPT, PGPB, EPAB, JPAB, DWPI, REGISTRY, BIOSIS, BIOTECHNO, CA | , CANCERLIT, CAPLUS, CEABA-VTB, | | | | |
| DISSABSTR, EMBASE, ESBIOBASE, IFIPAT, JICST-EPLUS, LIFESCI, MI | EDLINE, SCISEARCH, TOXCENTER | | | | |
| Search Tërms: "RN-656800-58-7", "RN-656800-60-1", "RN-656800-59-8", "RN-656800-61-2", "RN-656800-62-3", Rhodium, Rh, Rh3, photo\$, light, activat\$, anti- vir\$, umor\$, bacteria\$, microbia\$, cancer, viricidal, bisphen, photo\$, photodynamic, photosensit\$, | | | | | |
| photoactivat\$, light-activat\$, photoadduct, photoaquation | | | | | |
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NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.